

Attorney's Docket No.: 297-009466-US(PAR)

**PATENT**



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Express Mail No.: EL336863615US

In re application of.: SEBIRE et al.

Group No.:

Serial No.:

Filed: Herewith

Examiner:

For: METHOD AND ARRANGEMENT FOR USING A SELECTED SIGNAL PROCESSING  
SCHEME TO CARRY INFORMATION

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**TRANSMITTAL OF CERTIFIED COPY**

Attached please find the certified copy of the foreign application from which priority is claimed for this case:

Country : Finland  
Application Number : 991414  
Filing Date : 21 June 1999

**WARNING:** "When a document that is required by statute to be certified must be filed, a copy, including a photocopy or facsimile transmission of the certification is not acceptable." 37 CFR 1.4(f) (emphasis added.)

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NOTE: The claim to priority need be in no special form and may be made by the attorney or agent if the foreign application is referred to in the oath or declaration as required by § 1.63.

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Helsinki 18.5.2000

JP833 U.S. PTO  
09/595970  
06/19/00

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PRIORITY DOCUMENT



Hakija  
Applicant

Nokia Mobile Phones Ltd  
Espoo

Patenttihakemus nro  
Patent application no

991414

Tekemispäivä  
Filing date

21.06.1999

Kansainvälinen luokka  
International class

H04L

Keksinnön nimitys  
Title of invention

"Method and arrangement for using a selected signal processing scheme to carry information"  
(Menetelmä ja järjestely tietyn signaalinkäsittelymetodin käyttämiseksi informaation välittämiseen)

Täten todistetaan, että oheiset asiakirjat ovat tarkkoja jäljennöksiä patentti- ja rekisterihallitukselle alkuaan annetuista selityksestä, patenttivaatimuksista, tiivistelmästä ja piirustuksista.

This is to certify that the annexed documents are true copies of the description, claims, abstract and drawings originally filed with the Finnish Patent Office.

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**Method and arrangement for using a selected signal processing scheme to carry information**

**Menetelmä ja järjestely tietyn signaalinkäsittelymetodin käyttämiseksi  
5 informaation välittämiseen**

**Metod och arrangemang för att utnyttja ett särskilt förfaringssätt i  
signalhantering för att förmedla information**

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The invention concerns generally the technological field of conveying digital information over a wireless interface from a transmitting device to a receiving device. Especially the invention concerns the use of a certain selected signal processing scheme to carry meaningful information.

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In standardized digital wireless systems like digital cellular radio networks there is a standardized form for each message that a transmitting device is allowed to transmit over the wireless interface to the receiving device. Due to the limited number of available transmission frequencies and the requirements for minimized delays each message should be as compact as possible. This has resulted in difficulties when extensions and additions to the existing standards are made afterwards.

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In digital wireless systems the contents of all messages are basically sequences of bits with a limited sequence length. The specifications usually reserve some otherwise unspecified bit combinations for future additions and extensions, but it may happen that in the future so many additions and extensions are made that these simply run out. In such a situation it is usually required that a completely new kind of a message is specified, which has serious implications in the form of required upgrading of system hardware and software.

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As an example we will examine the known packet access burst format which is defined in the specifications of the GSM system (Global System for Mobile telecommunications) for the use of mobile stations when they want to request resources for a dedicated packet data channel. The definition of a packet access burst covers 157 consecutive bits according to Table I.